

CLAIMS:

1. A device for subfield coding a large-screen display, the device comprising means for generating a digital value for a picture element of the display and means for determining a first number and a second number of subfields of a predetermined total number of subfields from the digital value, for which determined subfields the picture element emits radiation

characterized in that the device comprises

- means for determining the first number of subfields from the digital value, the first number of subfields having a fixed duration and a different on-period in which the picture element emits radiation, and

- means for determining the second number of subfields from the digital value, the second number of subfields having a fixed duration and a fixed on-period during which the picture element emits radiation.

2. A device for subfield coding as claimed in claim 1, characterized in that the means for determining the first number are arranged to determine the first number from a sequence of a predetermined number of least significant bits of the digital value.

3. A device for subfield coding as claimed in claim 2, characterized in that the subfield coding device comprises means for generating a subfield sequence having a number of subfields which is equal to the determined number of least significant bits, and the duration of the on-period of a subfield selected from the subfield sequence is a function of two to the power of the rank of the selected subfield in the subfield sequence.

4. A device for subfield coding as claimed in claim 3, characterized in that the subfield coding device comprises means for generating an output-enable signal depending on the order of a subfield in the subfield sequence and the value of a bit in the sequence of least significant bits, which order of the bit in the sequence corresponds to the order of the subfield.

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5 6. A device for subfield coding as claimed in claim 1, characterized in that the means for determining the second number are arranged to determine the second number proportional to a value formed by the remainder of most significant bits of the digital value.

8. A method of subfield coding a large-screen display, the method comprising the steps of

15 generating a digital value for a picture element of the display and determining a first number and a second number of subfields of a predetermined total number of subfields from the digital value, for which determined subfields the picture element emits radiation

characterized in that the step of determining subfields comprises

20 - a substep of determining the first number of subfields from the digital value, the first number of subfields having a fixed duration and a different on-period in which the picture element emits radiation, and

- a substep of determining the second number of subfields from the digital value, the second number of subfields having a fixed duration and a fixed on-period during

25 which the picture element emits radiation.